



STATE OF HAWAII
DEPARTMENT OF HEALTH
P.O. Box 3378
Honolulu, HI 96801-3378

In reply, please refer to:
File:

NEUROTRAUMA ADVISORY BOARD (NTAB)
MEETING MINUTES
August 25, 2017

Present: Rita Manriquez, Scott Sagum, Molly Trihey, Stella Wong, Lyna Burién, Valerie Yamada, Angie Enoka

Excused: Milton Takara

Others: Violet Horvath, Director, Pacific Disabilities Center, HNTR; Cora Speck, Queen's Medical Center; Tina Robertson, Queen's Medical Center Tele-stroke; Devan Otagaki, Rehabilitation Hospital of the Pacific

DOH Staff: Curtis Inouye, Neurotrauma Supports; Chelsea Ko, Neurotrauma Supports; Cristina Valenzuela, Neurotrauma Supports

- I. Call to Order** – Meeting was called to order at 1:40 p.m. by Chair Scott Sagum. Quorum present.
- II. Approval of Minutes from the June 23, 2017 meeting** – Stella Wong motion to accept the minutes as written. Board Member Molly Trihey second the motion. All Board Members present voted in favor of minutes being accepted as written. No questions or discussions.
- III. Review of Agenda** – All Board Members present voted in favor of accepting the agenda. No questions or discussions.

IV. **New Business**

A. Transfer Training/Rehabilitation Hospital of the Pacific:

The transfer training program was created to provide caregivers and families proper techniques of transfers that can be performed on patients requiring transfer assistance. Per Devin Otagaki, a Physical Therapist of the Rehabilitation Hospital, the training will also teach participants how to identify the patient's physical and cognitive strengths and limitations when assisting with mobilizing the patient, propping into the wheelchair, and re-positioning of the patient back into bed after the transfer.

The training schedule has not been confirmed. At this time, a two-day course, at four-hours per day per year for a class of 14-participants has been proposed. Classes are open to anyone who is interested. Ms. Otagaki is scheduled to meet with homecare facilities to share and discuss the new program.

The NTAB made several suggestions regarding the topic:

- *Board Member Rita Manriquez suggested to contact the American Red Cross; their CNA program may be interested in the training program*
- *Violet Horvath, Director of Pacific Disability Center, suggested to add two more classes to the proposed training schedule. This would allow for training on the neighbor islands. Ms. Ogataki said the lack of staff is an issue at this time. However, she will discuss concerns with Rehab. Hospital CEO.*
- *Board Member Stella Wong proposed a fee be charged to home-care facilities who attend the training. A certificate of completion can be issued to participating agencies at the fulfillment of class.*
- *Cora Speck of Queen's Hospital recommended an evaluation at the end of training to reflect participation statistics and survey about the course.*

The Rehabilitation Hospital will present its final budget for review at the next meeting on October 27, 2017. NTAB will also vote during that time.

B. Annual Joint Advisory Board Meeting:

The DOH-Neurotrauma Supports is arranging a joint advisory board meeting to take place at the end of January 2018. The meeting will combine members from the Neurotrauma Brain Injury Advisory Board

(NTAB) and State Traumatic Brain Injury Advisory Board (STBIAB), for a meet-and-greet and to share ideas. Per DOH staff, Chelsea Ko, the meeting will also feature guest speakers, lunch, and training. Neighbor island board members will be flown to O'ahu to attend the meeting.

- C. Traumatic Brain Injury Awareness Month (March 2018):
DOH Staff Cristina Valenzuela, recommended a project that has brought recognition and awareness to traumatic brain injury (TBI) nationwide. The project, called Unmasking Brain Injury, started at Hinds' Feet Farm in North Carolina. It features paper face masks decorated by TBI survivors and are being displayed throughout the community at different cities. The project serves as a way for survivors to advocate for themselves and share their personal, life-changing experience of having TBI with the public.

Per Ms. Valenzuela, the project will provide education and build public awareness on TBI. Masks can be displayed year-long at various locations state-wide to perpetuate the effectiveness and impact of the project. Interested organizations may contact the DOH-Neurotrauma Supports staff for more information. Masks and supplies will be funded by the DOH.

V. **Old Business**

- A. Spinal Cord Injury Awareness Month (September 2017):
The DOH and Pacific Disabilities Center (PDC) is joining Access Surf's Day at the Beach event on Saturday, September 9, 2017 from 9:00-1:00 pm. The event is free to all individuals' with disabilities; trained volunteers will be on-hand to show participants how to use adaptive equipment while on the beach. DOH and PDC will have a tent set-up with giveaways and information on spinal cord injury. Access Surf is always looking for volunteers. They provide training and lunch for those interested.

Violet Horvath of PDC suggested the board also look into volunteering with the Wounded Warrior organization on a monthly basis.

- B. *Pacific Disabilities Center/Hawaii Neurotrauma (HNTR) Update:* Director of PDC, Violet Horvath, reported the use of a new, short version of the survey since August 10, 2017. The new version consists of 30-questions and asks only about the first neurotrauma injury. If the respondent specifies of other neurotrauma injuries, an HNTR staff will respond with a follow-up. HNTR is also tracking the amount of time it takes to complete the survey and the type of applicant filling out the survey.

Since the last NTAB meeting, HNTR has attended and presented at the following events: the Hawaii Society of Nurse Trauma Leaders (Quarterly Meeting) on July 26, 2017, the Hawaii Trauma Advisory Council (Quarterly Meeting) on July 27, 2017, and the Kupuna Caucus on August 4, 2017. In addition, Ms. Horvath announced future events/meetings such as 6th Annual Pacific Regional Behavioral Health Summit on September 7-8, 2017 and the Hawaii Statewide Fall Prevention Consortium Meeting on November 21, 2017. (Please refer to the HNTR report distributed on August 25, 2017 for a full-listing of events)

July of 2017 marks the first full month the HNTR information/referral and survey processes were done simultaneously. Respondents have the option to take the survey at a later time if information/referral was their initial interest.

The media and marketing activities in July of 2017 included a new Facebook friend/following of 48-people and four YouTube hits for a total of 542 for all TV and radio shows, webinars, and PSA's available at the site. Also, Issue no. 7 of the HNTR newsletter will launch on July 20, 2017 with a focus on spinal cord injuries.

Ms. Horvath attended a meeting on August 14, 2017 that included representatives from the DOH-Neurotrauma Supports, Hawaii Disability Rights Center (HDRC), and HMSA. The meeting discussed HMSA's definition of cognitive rehabilitation therapy, how it was covered, statistics, and other related services.

The meeting concluded with the following findings: HMSA has offered cognitive rehabilitation therapy coverage since 2012, there is very limited public awareness of the service/coverage, and the process to

receive service/coverage can be difficult for patients and families with TBI.

- C. Hawaii Islands Regional Stroke (HIRS) Network Update:
Kahuku Hospital will soon join HIRS's network of tele-stroke sites. Per Tina Robertson of Queen's Medical Center, Kahuku Hospital will initiate its first live training on September 1, 2017. To date, two neurologists have joined the tele-stroke team. Activity year to date (1/1/17-8/10/17) reported 55 tPA administrations and 142 total calls.

HIRS conducted a F.A.S.T. school stroke education project that involved students from 6 elementary schools, 2 intermediate schools, and 1 high school. The project required a trained coordinator to educate students to recognize stroke signs, students take a paper home to train family members, paper is signed and returned to school, and students receive a F.A.S.T. duck for completing the training. Ms. Robertson reported the results showed the effectiveness of the project; statistics revealed the number of people trained to recognize stroke signs increased due to the number of people in the household. HIRS plans to do more educational projects in the upcoming year.

- D. Brain Injury Association (BIA) of Hawaii Update:
Per Lyna Burien, since the departure of recent members, BIA is currently recruiting for new officers.
- E. Neighbor Island TBI Activities Update:
Chairperson Scott Sagum attended an ocean safety conference in Honolulu and conducted a presentation on surfer's myelopathy.
- F. DOH Update:
Beginning November 2017, the Kalanimoku Building will no longer be available to hold NTAB meetings. Per DOH staff Chelsea Ko, Neurotrauma Supports is currently looking at other possible venues such as the DOH's Kinau Hale. Confirmation of a new location to be announced at a later time.

The Neurotrauma brochure has been approved and will be sent out for printing.

The Neurotrauma staff will be travelling to Kauai on either September 12th or 13th to attend a Brain Injury Group meeting.

VI. Announcements

Brain Injury Association of Hawaii

Support Group and Educational Meetings

1. *First Saturdays, 1:00-3:00 p.m., Rehabilitation Hospital of the Pacific, Wo Conference Room #4.*
2. *2nd and 3rd Wednesdays, 6:00-8:00 p.m., Rehabilitation Hospital of the Pacific, Wo Conference Room #4*

VII. Next Meeting:

Date: October 27, 2017

Location: Kalanimoku VCC and Neighbor Island Sites

Time: 1:30 p.m. to 4:00 p.m.

Meeting Adjourned at 3:14 p.m.

Department of Health

Neurotrauma Special Fund

Application for Funding

Aloha. Thank you for your interest in submitting an application to request funding from the Neurotrauma Special Fund. Please note that the Neurotrauma Special Fund, in accordance with 321H-4, Hawaii Revised Statutes, shall be used for the purpose of funding and contracting for services relating to neurotrauma as follows: 1) Education on Neurotrauma; 2) Assistance to individuals and families to identify and obtain access to services; and 3) Creation of a registry of neurotrauma injuries within the State to identify incidence, prevalence, individual needs, and related information. Proposals submitted for funding shall be reviewed to ensure compliance with 321H-4, Hawaii Revised Statutes.

Organization	
Name: Hawaii Concussion Awareness & Management Program, UH KRS Department	
Address: 1337 Lower Campus Road PE/A231	Tel: 808-956-7606
City, State: Honolulu, Hawaii	Fax: 808-956-7976
Zip: 96822	Website: hawaiiconcussion.com
Executive Director	
Name: Nathan Murata, PhD	E-mail: nmurata@hawaii.edu
Title: Principal Investigator	Tel: 808-956-7606
Contact Person	
Name: Ross Oshiro	E-mail: oshiror@hawaii.edu
Title: Program Coordinator	Tel: 808-347-0975
Project	
Project Title: Concussion Summit 2018	
Total Amount Requested: \$20,000.00	No. of Yrs: Annually
If more than one year of funding is being requested, include amount per year: \$20,000.00	
A separate document may be attached if more space is needed for the following questions.	
Provide background information (e.g., relevant literature and data) on the issue(s) the project aims to address, if applicable: The Hawaii Concussion Awareness & Management Program (HCAMP) has been providing education and awareness about concussions to students, parents, coaches, school personnel, and health care professionals since 2010. HCAMP has been able to provide annual concussion summits to health care providers from 2010. This past summer we were able to conduct a one day summit at Queen's Conference Center with 2 mainland speakers and 3 local speakers. Our actual expense for this conference was \$11,179.11. We had a total of 147 attendees, of those 40 were physicians. In past conferences our physicians' total were less than 6 annually. Providing CME for physicians was probably the largest positive change.	

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Neurotrauma Special Fund
Application for Funding

For this year we are expanding this concussion education and awareness conference to two days with 2-4 mainland speakers and 4-5 local speakers. We will continue to offer CME for physicians and athletic trainers and targeting Queen's Conference Center as our location.

Describe the purpose of project (include how project aligns with 321H-4, Hawaii Revised Statutes) and how the project will impact the issue(s) described above, if applicable:
The purpose of the Concussion Summit is to provide Hawaii's athletic trainers, physical therapists, physicians and other health care providers that treat patients with traumatic brain injury the latest evidence based practices to implement in their daily practice. This concussion education and awareness conference will have at least 2 mainland speakers that are nationally renowned speakers/researchers and they will provide the audience with tools they can take home and use right away. One of the speakers will update the audience with the latest information provided by the 2016 Berlin Concussion Consensus statement which he was one of the authors.

Provide background information on local, national, and/or international initiatives that aimed to address the same or similar project goals (include evidence-based practices), if applicable:
There is growing evidence that complete rest for longer than 2-3 days after a concussion may prolong the recovery of a patient. This latest evidence will be provided to the audience along with data collected here locally.

Describe and justify the choice of the current proposed methods/procedures/activities and project timeline, if applicable:
A conference such as the Concussion Summit provides health care providers with current evidence based practice as well as providing needed continuing education units which most health care providers need.
Securing location by Oct. 15, 2017
Confirming speakers by Dec. 1, 2017
Brochures released Feb 1, 2018
Conference on July 13 & 14, 2018

Describe the project deliverables and expected outcome(s) and how outcomes will be measured, if applicable:
We want to increase the number of total attendees from last year by 25% for a total of 180. Increase the number of physicians from 40 to 60, for a 50% increase. This will be tracked by our registration of attendees.

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Describe the project's sustainability plan beyond the proposed funding period, if applicable: HCAMP has demonstrated from last year's summit that it can sustain a one day conference.
Describe the organization and how it will achieve the outcomes defined in the proposed scope and timeframe, if applicable: HCAMP has been housed in the University of Hawaii's Kinesiology & Rehabilitation Science Department since 2010. In 2016 it was charged by ACT 262, 2016 to provide concussion cognitive testing for high school student athletes and to monitor/collect data of concussions in Hawaii's high schools. HCAMP has done conferences like these before so historically it has demonstrated success.
Budget
Provide line item breakdown for how funds will be used: \$12,000 for speaker fees \$6,000 for registration fees \$2,000 for promotional/registration materials \$20,000 total
If total project budget exceeds requested funding amount, attach complete budget including all expenses and income/other sources of funding.

Please send the completed Department of Health Neurotrauma Special Fund Application for Funding and all applicable attachments to:

Community Resources Branch
Neurotrauma Supports
3627 Kilauea Avenue, Room 411
Honolulu, HI 96816

Should you have any questions, please feel free to contact Wendie Lino, Supervisor, Community Alternatives Section, at (808) 733-2142 or via email at wendie.lino@doh.hawaii.gov. Mahalo

Hawaiian Islands Regional Stroke Network Update

(Funded by a grant from the Hawaii State Dept. of Health Neurotrauma Fund)

Hub site: The Queen's Medical Center

Current spoke sites:

Current active sites are Molokai General Hospital (activated on 11/8/2011), Wahiawa General Hospital (activated on 6/21/12), Hilo Medical Center (activated on 8/1/13), The Queen's Medical Center—West O'ahu (activated on 1/12/15), Kona Community Hospital (activated on 5/27/15), Maui Memorial Medical Center (8/11/15), North Hawaii Community Hospital (activated 12/15/15) and The Queen's Medical Center Punchbowl. The seven spoke site hospitals – ED MDs and nurses, hospitalists, and administration - have been educated on stroke care paths and protocols and in-serviced on use of the technology.

Kahuku Medical Center was initiated on 09/01/2017. The staff was educated on care of patients with acute stroke and telemedicine equipment use by Matthew Koenig, M.D. and Jen Moran MS, ACNP,

Total Calls	677		
Incomplete Calls	121	Triage calls, not telestroke	74
		Technical difficulties	47
Completed Calls	556	Molokai General Hospital (MGH)	27
		Wahiawa General Hospital (WGH)	63
		Hilo Medical Center (HMC)	81
		The Queen's Medical Center West (QMC-W)	257
		Kona Community Hospital (KCH)	54
		Maui Memorial Medical Center (MMMC)	27
		North Hawaii Community Hospital (NHCH)	31
		The Queen's Medical Center Punchbowl	16
		Kahuku Medical Center	
# IV tPA Administrations	216	# Transferred to QMC Punchbowl	150
		# Not transferred-remained at site or transferred to another institution	67
Total Transfers to QMC Punchbowl	206	Non tPA Transfers	56

Activity year to date 01/01/17 to 10/18/2017

Total Calls	193		
Incomplete Calls	32	Triage calls	20
		Technical difficulties	12
Completed Calls	161	Molokai General Hospital (MGH)	5
		Wahiawa General Hospital (WGH)	9
		Hilo Medical Center (HMC)	21
		The Queen's Medical Center West Oahu (QMC-W)	87
		Kona Community Hospital (KCH)	13
		Maui Memorial Medical Center (MMMC)	1
		North Hawaii Community Hospital (NHCH)	10
		The Queen's Medical Center Punchbowl	15
# IV tPA Administrations	73	# Transferred to QMC Punchbowl	51
		# Not transferred-remained at site or transferred to another institution	22
Total Transfers to QMC Punchbowl	66	Non tPA Transfers	17

IV tPA Administration Summary

tPA #	Spoke Site	Encounter Duration (min)	Transfer to QMC Punchbowl?	Initial NIHSS	Last NIHSS	DC Disposition
1	MGH	60	YES	6	1	Home
2	WGH	45	YES	9	2	Home
3	WGH	UTD	YES	16	16	Hospice
4	WGH	60	YES	5	0	Home
5	WGH	45	YES	14	0	Hone
6	WGH	35	YES	13	13	SNF w/ POLST
7	WGH	40	YES	6	2	Home
8	WGH	60	YES	5	0	Home
9	WGH	50	YES	8	ND	RHOP
10	WGH	30	YES	3	3	Home
11	WGH	40	YES	11	13	RHOP
12	HMC	40	NO	13	UTD	UTD
13	MGH	35	YES	11	6	RHOP
14	WGH	35	YES	15	3	RHOP
15	MGH	15	YES	7	0	HOME
16	HMC	45	NO	6	4	Transfer Kaiser Acute
17	HMC	45	NO	7	UTD	SNF
18	WGH	40	NO	16	3	UTD
19	HMC	50	NO	17	UTD	Home

20	HMC	35	NO	21	21	UTD
21	MGH	40	YES	10	4	RHOP
22	HMC	30	NO	5	1	VA home
23	MGH	UTD	YES	9	10	RHOP
24	HMC	35	NO	ND	7	Home
25	WGH	30	YES	7	0	Home
26	MGH	UTD	YES	6	6	Home
27	QMC-W	35	YES	32	24	Foster Home
28	QMC-W	120	YES	4	1	Home
29	QMC-W	40	NO	16	UNK	Transfer Kaiser Acute
30	MGH	80	YES	20	29	Expired
31	HMC	30	NO	14	8	Home
32	QMC-W	90	YES	17	5	Home
33	WGH	90	YES	10	26	Expired
34	QMC-W	50	YES	6	9	RHOP
35	QMC-W	45	YES	6	0	Home
36	HMC	35	NO	ND	ND	Expired
37	QMC-W	90	YES	24	24	Expired
38	WGH	45	YES	31	27	Hospice
39	QMC-W	40	YES	9	0	Home
40	HMC	50	NO	6	ND	Home
41	MGH	45	YES	5	1	Home
42	QMC-W	40	YES	16	6	RHOP
43	QMC-W	50	YES	10	7	Home
44	QMC-W	60	NO	11	11	DC to Kaiser Acute
45	WGH	45	YES	11	2	Home
46	QMC-W	50	YES	14	20	SNF-Short Term Rehab
47	HMC	50	NO	11	5	SNF
48	QMC-W	40	YES	13	4	Home
49	WGH	90	YES	26	1	Home
50	QMC-W	90	YES	16	5	SNF-SHORT TERM REHAB
51	QMC-W	50	YES	15	11	STR then Hospice
52	KCH	35	NO	2	0	Home
53	QMC-W	30	YES	5	0	Home
54	WGH	60	YES	7	ND	Home
55	WGH	30	YES	19	0	SNF-Short Term Rehab
56	QMC-W	55	YES	12	0	Home
57	HMC	30	NO	37	8	SNF
58	MMMC	30	NO	17	15	Home
59	QMC-W	60	YES	22	9	DC to RHOP
60	QMC-W	NA	YES	5	1	Home
61	WGH	50	YES	23	ND	Expired
62	QMC-W	40	YES	16	15	DC to RHOP
63	QMC-W	40	YES	18	20	Expired
64	HMC	20	NO	18	1	Home
65	QMC-W	30	YES	14	ND	Home Hospice

66	MMC	50	NO	9	NA	Home
67	MMC	30	NO	ND	15	Home
68	QMC-W	40	YES	2	0	SNF-Short Term Rehab
69	QMC-W	NA	YES	11	2	Home
70	QMC-W	40	YES	2	2	Home
71	QMC-W	30	YES	2	4	RHOP
72	MGH	ND	YES	22	15	RHOP
73	QMC-W	80	YES	17	5	RHOP
74	QMC-W	80	YES	16	2	Home
75	QMC-W	50	YES	7	2	Home
76	QMC-W	50	YES	18	3	RHOP
77	KCH	70	NO	10	6	Home
78	MMC	50	NO	7	4	Mainland Rehab
79	QMC-W	30	YES	4	1	Home
80	MMC	30	NO	14	3	Home
81	NHCH	50	NO	13	2	Transfer Kaiser Acute
82	QMC-W	50	YES	7	0	HOME
83	KCH	60	YES	23	3	HOME
84	NHCH	60	NO	9	2	SNF-Short Term Rehab
85	QMC-W	50	YES	9	4	RHOP
86	MGH	60	YES	26	17	Expired
87	HMC	60	NO	16	1	Home
88	KCH	35	NO	13	5	SNF
89	QMC-W	30	YES	7	9	SNF
90	MMC	60	NO	24	UNK	Expired
91	QMC-W	50	YES	23	26	Hospice
92	QMC-W	35	YES	9	8	Home
93	QMC-W	45	YES	4	2	Home
94	KCH	50	NO	16	19	Home Hospice
95	QMC-W	50	YES	3	0	Home
96	QMC-W	50	YES	13	4	Home
97	KCH	40	NO	5	0	Home
98	NHCH	60	YES	12	0	Home
99	QMC-W	50	YES	4	1	Home
100	KCH	70	YES	24	30	Expired
101	QMC-W	50	YES	10	0	Home
102	WGH	50	YES	5	2	RHOP
103	WGH	50	YES	21	0	Home
104	WGH	50	YES	6	3	SNF-Short Term Rehab
105	HMC	50	NO	5	0	Home
106	NHCH	50	YES	4	2	RHOP
107	QMC-W	45	YES	9	1	Home
108	QMC-W	40	YES	10	1	Home
109	QMC-W	40	YES	7	1	RHOP
110	NHCH	50	YES	23	22	Home Hospice
111	QMC-W	50	YES	6	0	Home

112	QMC-W	50	YES	8	3	Home
113	KCH	50	NO	16	ND	Transfer Kaiser Acute
114	HMC	50	NO	18	ND	SNF-Short Term Rehab
115	NHCH	50	YES	15	3	HOME
116	QMC-W	40	YES	17	0	HOME
117	QMC-W	60	YES	19	14	Transfer Kaiser Acute
118	HMC	45	NO	23	18	SNF-Short Term Rehab
119	QMC-W	50	YES	9	7	RHOP
120	HMC	35	NO	1	0	Home
121	QMC-W	60	YES	8	15	Home (No insurance)
122	HMC	50	YES	11	0	Home
123	QMC-W	45	YES	4	4	Transfer Kaiser Acute
124	HMC	60	NO	5	ND	Home
125	QMC-W	55	YES	6	0	Home
126	QMC-W	50	YES	6	0	Home
127	NHCH	50	NO	5	2	Home
128	QMC-W	45	YES	4	1	HOME
129	HMC	40	NO	14	17	Hospice
130	QMC-W	50	YES	4	0	Home
131	QMC-W	40	YES	35	6	SNF-Short Term Rehab
132	QMC-W	40	YES	12	8	RHOP
133	MGH	40	YES	18	25	Hospice
134	NHCH	50	YES	6	3	Home
135	KCH	60	YES	7	1	Home
136	QMC-W	60	YES	2	0	Home
137	KCH	40	NO	4	0	Home
138	HMC	40	NO	24	ND	Home
139	KCH	45	NO	6	7	SNF
140	WGH	60	YES	17	5	Foster Home
141	HMC	65	YES	3	3	SNF
142	WEST	40	YES	6	0	Transfer Kaiser Acute
143	KCH	40	NO	15	13	Home
144	MMMC	35	NO	2	0	Home
145	KCH	50	YES	5	0	Home
146	HMC	50	NO	8	9	RHOP
147	MGH	50	YES	5	9	RHOP
148	WEST	45	YES	9	6	RHOP
149	KCH	50	YES	5	24	Expired (ICH)
150	MGH	60	YES	5	1	Home
151	QMC-W	50	YES	5	3	Home
152	QMC-W	50	YES	5	0	HOME
153	WGH	40	YES	4	6	RHOP
154	WGH	50	YES	3	4	RHOP
155	QMC-W	50	YES	8	0	Home
156	QMC-PB	50	YES	12	2	SNF-Short Term Rehab
157	QMC-W	70	YES	28	29	Expired

158	QMC-W	45	YES	11	0	Home
159	WGH	50	YES	5	0	Home
160	QMC-W	50	YES	6	0	Home
161	QMC-W	45	YES	11	5	Home
162	HMC	40	NO	9	7	SNF
163	QMC-W	45	YES	3	0	Home
164	QMC-W	60	YES	28	28	Expired
165	QMC-W	40	YES	11	1	Home
166	QMC-W	60	YES	8	4	RHOP
167	QMC-W	50	YES	20	3	Home
168	QMC-PB	60	NA	18	15	SNF-Short Term Rehab
169	QMC-W	ND	YES	29	4	RHOP
170	WGH	40	YES	24	32	Expired
171	QMC-W	40	YES	3	0	Home
172	QMC-W	50	YES	20	32	SNF
173	NHCH	40	YES	26	22	SNF-Short Term Rehab
174	HMC	40	NO	20	ND	SNF
175	QMC-W	50	YES	2	0	Home
176	QMC-PB	40	YES	4	0	Home
177	QMC-W	60	YES	4	0	Home
178	HMC	60	NO	18	7	Long Term Care
179	QMC-W	50	YES	20	6	Left AMA- Home
180	QMC-PB	60	NA	25	17	RHOP
181	WGH	40	YES	6	1	Home
182	QMC-W	60	YES	17	7	SNF-Short Term Rehab
183	QMC-W	60	YES	4	1	Home
184	KCH	60	YES	24	32	Hospice
185	QMC-W	50	YES	21	15	Inpatient Rehab in WA
186	QMC-PB	50	NA	4	1	Home
187	MMMC	40	NO	3	0	Home
188	HMC	40	NO	20	11	SNF
189	HMC	50	NO	6	0	Home
190	KCH	50	NO	4	2	SNF
191	HMC	45	NO	10	2	SNF
192	PB	45	NO	17	4	RHOP
193	HMC	50	NO	4	1	Home
194	QMC-PB	50	NA	20	25	Expired
195	QMC-W	45	YES	7	7	Home (Chronic Pain)
196	QMC-W	ND	YES	12	2	Home
197	QMC-W	50	YES	4	0	Home
198	QMC-W	50	YES	3	0	Home
197	QMC-W	50	YES	4	0	Home
198	QMC-W	50	YES	3	0	Home
199	KCH	50	YES	16	4	RHOP
200	QMC-W	60	YES	3	1	Home
201	QMC-W	ND	YES	30	23	Expired

202	HMC	30	NO	2	0	Home
203	QMC-W	45	YES	13	30	Home Hospice
204	QMC-W	60	YES	4	0	Home
205	HMC	60	NO	7	0	Home
206	WGH	ND	YES	27	20	SNF-Short Term Rehab
207	QMC-W	60	YES	10	1	Home
208	QMC-PB	40	NA	13	3	SNF-Short Term Rehab
209	QMC-W	45	YES	6	3	Home
210	QMC-W	50	YES	4	6	RHOP
211	HMC	50	NO	21	21	SNF
212	QMC-W	50	YES	7	3	RHOP
213	QMC-W	45	YES	26	35	Expired
214	QMC-W	ND	YES	10	4	Home
215	HMC	50	NO	9	0	HOME
216	QMC-W	30	YES	10		

- 56 patients did not receive t-PA but transferred to QMC for further treatment such as endovascular reperfusion, closer monitoring, further evaluation and diagnosis of intracerebral hemorrhage (ICH).
- 265 patients remained at spoke site or were transferred to another institution since they were not tPA candidates and did not require a higher level of care. These patients were diagnosed with mild stroke, completed stroke, complex migraine, seizure, old stroke, ICH, fatal stroke or with transient symptoms.
- 33 patients at HMC, 8 patients at MMMC, 3 patient at NHCH, 10 patients at KCH and 7 patients at QMC Punchbowl received t-PA and remained at site; 3 patient from QMC West and 1 patient from NHCH transferred to Kaiser; 1 patient from Wahiawa General remained at site due to lack of available bed.
- Telemedicine encounters require about 35- 60 minutes of direct critical care time.

Community Education

- September 21, 2017 – Jen Moran, MS, provided stroke education at the 6th Annual Molokai Disability Resource Fai for Molokai community members – seniors
- June,6, 2017 – Jen Moran, MS, ACNP educated 30 RHOP stroke survivors on stroke prevention and FAST
- May 31, 2017 – Jen Moran, MS, ACNP provided FAST education for Mary Knoll elementary school's kindergarten class
- May 22, 2017 – Jen Moran, MS, ACNP provided FAST education at Ma'ilī elementary school for grades K-6
- May 16, 2017 – Jen Moran, MS, ACNP provided FAST education at Waianae elementary school for grades K-6
- May 8 and 13, 2017– Jen Moran, MS, ACNP educated community listeners on Dr Health radio show (live and rebroadcast).

- May 1, 2017–Kazuma Nakagawa, M.D. and Jen Moran, MS, ACNP appeared on KHON's "Living808" to provide stroke education
- April 28, 2017– QMC RNs (including Ilocano speaking) educated 300 Monsanto employees on stroke awareness
- January 9, 2017– Cherylee Chang, M.D. appeared on KHON morning news to inform public about QMC becoming the first Comprehensive Stroke Center in Hawaii and treatment available for stroke.
- December 5, 2016– Jen Moran, MS, ACNP discussed stroke recognition and risk factors in light of recent death of Keo Woolford (Local huala and producer talent) on KHON am Talk show. Public Television.
- October 28, 2016 – Jen Moran and local AACN chapter RNs educate St. Clemente Kindergarten classes Hands on CPR and FAST stroke recognition
- July 19, 2016, – Matthew Koenig, M.D. and Jen Moran, MS, ACNP educated 50 residents at Craigsides Senior living facility on stroke education.
- June 16, 2017 – Jen Moran, MS, ACNP educated AHA Heart Health: Simple 7 and Stroke Awareness
- May, 2016 – Matthew Koenig, M.D. Speaking of Health QMC: How to Prevent and Survive a Stroke QMC Speaking of Health Community education venue https://youtu/xk6yMwuo_b1Mwuo
- May, 2016 – Nakagawa, Kazuma, M.D discussed stroke awareness, prevention and treatment in Ka Wai Ola SNF Newsletter
- June 16, 2016 – Johnna DelCastillo Taught S/S of stroke and distributed stroke magnets to Canoe Paddling Club members (about 18 children).
- June 16, 2016 – Tiffany Hoke DNP, educated the community of Lanai on AHA's Life's Simple Seven
- May 28, 2016 – Rony, Salem, M.D. educated the public about stroke awareness on KDN radio station
- May 27, 2016 – Matthew Koenig, M.D. promoted stroke awareness at Speaking of Health QMC– AMC Community Awareness Health topics
- May 25, 2016 Jen Moran, MS, ACNP educated about 150 members of the public at Stroke Awareness Booth Kualoa Ranch Health and Benefits Fair.
- May 14, 2016 – Matthew Koenig, M.D., Sung Lee, M.D and Jen Moran, MS, ACNP spoke on KHNR 690 AM's "Dr Health Radio" show to promote stroke awareness
- May 9, 2016 – Matthew Koenig, M.D. and Sung Lee, M.D. spoke about stroke awareness and systems of Care on KITV Body Show
- April 26, 2016 – QMC RNs (including Ilocano speaking) educated 300 Monsanto employees on stroke awareness
- April 21, 2016 – Denise Dittrich, RN educated members of the Windward YMCA. AHA presentation. Life's Simple Seven.
- March 14, 2016 – Jen Moran, MS, ACNP spoke on Healthy Mondays Radio Show on AM Christian Radio station
- March 14, 2016 – Jen Moran, MS, ACNP discussed Stroke in Our Community on Public AM radio station
- March 11, 2016 –QMC RNs educate St. Clemente Kindergarten classes on Hands only CPR and FAST stroke recognition

- March 2, 2016 – Matthew Koenig, M.D. Your Brain Matters, Channel 54 Olelo Access TV
- February 25, 2016 – Juliet Beniga, RN educated community of Molokai for Nā Pu‘uwai on AHA’s Life’s Simple Seven
- January 28, 2016–QMC MDs and RNs spoke with members of Hawaii Young Professional Executives meeting on stroke education
- September 28, 2015 Article in Star-Advertiser entitled, “When Stroke Symptoms are present FAST action is critical”.
- May 17, 2014–QMC West O‘ahu Community Health Fair- educated 1000 people on stroke signs and symptoms and telestroke network.
- Public health campaign 'Spot a Stroke' was a joint effort between DOH, QMC, and AHA that placed stroke education signs on every Oahu bus from May-September of this year. This campaign resulted in an estimated 14 million impressions on Oahu bus riders and was paid from our Neurotrauma Fund grant and the placement fee was donated by Ad Walls.
- Dr Koenig filmed a promo with the Pacific Basin Telehealth Resource Center regarding the telestroke project. To view the video: <http://vimeo.com/102377242>
- July 22, 2013–Craigside Place, educated 100 seniors on “Stroke: What you should know.”
- June 21, 2013–Waipio Senior Fair, Hawaii Okinawan Center, partnered with Wahiawa General Hospital and Genentech to conduct stroke risk assessments with 240 people and educate on stroke signs and symptoms and telestroke network.
- May 29, 2013–QMC, educated 150 medical center staff and guests on the stroke chain of survival (i.e. stroke risk factors, stroke signs and symptoms, acute stroke treatment and the telestroke network).
- May 16, 2013–Hawaii Dental Services, educated 40 worksite staff on “Heart Disease and Stroke: What women should know.”
- April 24, 2013 –QMC, educated 15 volunteers on “Stroke: What you should know.”
- February 15, 2013- Moanalua Middle School Health and Safety Fair, educated over 75 middle schoolers on signs and symptoms of stroke.
- October 27, 2012 - Wahiawa Community Health Fair, educated over 300 in the Wahiawa community about stroke and signs and symptoms and introduced them to Hawaiian Islands Regional Stroke Network Camera System.
- Article in Star-Advertiser on 10/18/12



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John A. Burns School of Medicine
Pacific Disabilities Center

**Hawai'i Neurotrauma Registry Project (HNTR) Report
for the Neurotrauma Advisory Board (NTAB)
October 27, 2017, 1:30 — 4:00 pm**

Report Outline

1. Registry Recruitment and Survey Updates
2. Community Education – Events and Presentations
3. Information and Referrals
4. Media and Marketing
5. Miscellaneous

The three main goals of the Hawaii Neurotrauma Registry Project are:

1. Recruit Hawaii residents on all islands and of all ages with neurotrauma injuries to take a voluntary survey on their injuries and post-injury circumstances
2. Provide education to the general public and professionals on all islands about neurotrauma injuries and the Registry
3. Offer an Information and Referral service to Hawaii residents with neurotrauma injuries and their family members, caregivers, and other supports

Information gathered from the surveys assists the Department of Health in identifying the community supports and services needed by neurotrauma injury survivors, helps to educate service providers, and helps to develop safety and prevention plans and policies.

Registry Recruitment

Year	Time Period	Number of Unique Persons
1	March 21, 2013 – March 20, 2014	40
2	March 21, 2014 – March 20, 2015	57
3	March 21, 2015 – March 20, 2016	43
4	March 21, 2016 – March 20, 2017	54
5	March 21, 2017 – September 30, 2017	23
	Total	217

1. Recruiting

Six people completed the survey in August 2017. Six also took it in September 2017.

Of the six in September, a presentation to Pacific Head Injury Support Group on September 13, 2017 resulted in two new survey participants.

Also, two of the six survey participants in September 2017 heard about us via Hawaii's Going Home Plus Project. This is the first time we have had persons referred by this organization and it is due to outreach efforts by Neurotrauma Supports staff.

2. Data Cleaning and Information and Referral data

Data cleaning is now complete. Statistics for Years 1 – 4 have been re-run and formatted. We now just need to check over the report for errors and put on finishing touches. We will be able to present highlights from the report at the next NTAB meeting. We will now starting entering data from Year 5.

Community Education – Events and Presentations

Completed Events and Presentations (since last NTAB meeting):

1. Rehabilitation Hospital of the Pacific Stroke Club – Oahu – September 5, 2017
 - a. Approximate attendance: 15 survivors and supports
 - b. Three people filled out the survey on site; several others filled out forms and were contacted later
2. 6th Annual Pacific Regional Behavioral Health Summit – Oahu – September 7-8, 2017
 - a. Table was in a poor location, but as a result the Conference Coordinator sent our information electronically to all attendees
 - b. Several people requested information and were contacted later
3. Access Surf Hawaii for Spinal Cord Injury Awareness Month – Oahu – September 9, 2017
 - a. Approximately 50 packets given out
4. Pacific Head Injury Support Group – Kailua-Kona, Hawaii Island – September 13, 2017
 - a. Approximately 15 people attended the presentation; a mix of survivors and professionals
 - b. Forty (40) portfolios were prepared, and the extras were left for distribution
 - c. Sent an additional 50 brochures afterwards for distribution to professionals on Hawaii Island
 - d. Two people who attended the presentation completed the survey soon afterward the meeting
5. Boys and Girls Club of Hawaii, A Day for Kids Event – Honolulu, Oahu – September 16, 2017
 - a. Approximately 200 children and parents visited the HNTR table and picked up our information/packet and played PLINKO
 - b. Two people completed Information & Referral forms
6. County of Kauai's Health and Wellness Fair – Lihue, Kauai – September 20, 2017
 - a. About 120 people visited the HNTR table during a 5 hour period, with about 135 packets distributed
7. 24th Annual Children and Youth Day at the Capitol – Oahu – October 1, 2017
 - a. Approximately 250 children and parents visited the HNTR table and picked up our information/packet and played PLINKO
 - b. Eight people completed Information & Referral form

Future:

1. HMSA Akamai Living Fair – Hilo, Hawaii Island – October 20, 2017
2. SPIN Footsteps to Transition – Oahu – October 21, 2017
3. 44th Annual Maui County Senior Health Fair – Wailuku, Maui – October 28, 2017

4. KTA Superstore Waimea Health Fair – Waimea, Hawaii Island – October 28, 2017
5. Hawaii Statewide Fall Prevention Consortium Meeting – Oahu and Neighbor Islands via teleconference – November 21, 2017

Item	Total through July 2017	August 2017	September 2017	Grand Total
Public Education				
Events attended by HNTR staff and volunteers	95	0	5	100
Number of individuals who visited HNTR tables at public events	15223	0	250	15473
Number of HNTR brochures distributed	14891	0	355	15246
Number of HNTR business and trivia cards distributed	4136	0	0	4136
Neurotrauma educational materials distributed	21394	0	305	21699
Number of volunteers assisting with public events (duplicated count)	113	0	2	115
Presentations and Networking				
Presentations about HNTR to professionals / community	60	1	2	63
Number of professionals / community members who attended HNTR presentations	1361	20	46	1427
Networking contacts made with partners / collaborators	267	1	1	269
Events / presentations in conjunction with partners / collaborators	42	2	2	46

Information and Referrals

1. Table of Information and Referrals (current contract year)

Month	Number of I&R Contacts Completed	Pieces of Information Given	How many answered I&R survey questions?	How many agreed to be in Registry?	How many were contacted but declined I&R?	Number of Unreachable I&R Contacts	Number of People who received I&R during this month who went on to complete Registry survey
September 2017	15	9	72	8	0	3	2
August 2017	26	5	66	7	0	0	10
July 2017	3	33	2	2	4	9	0
June 2017	12	103	1	3	2	16	3
May 2017	6	56	N/A	2	0	4	2
April 2017	5	22	N/A	0	3	12	0
March 2017	9	76	N/A	1	0	3	1

Media and Marketing

Activity in August 2017 consisted of a new Facebook Friend/Follower, and twelve YouTube hits for a total of 554 for all TV and radio shows, webinars, and PSAs available at the site.

Activity in September 2017 was comprised of a new Facebook Friend/Follower for a total of 58 and ten YouTube hits for a total of 564 for all TV and radio shows, webinars, and PSAs available at the site.

An e-blast about “September is Spinal Cord Injury Awareness Month” was sent to all HNTR subscribers on September 1, 2017.

Item	Total through July 2017	August 2017	September 2017	Grand Total
Media				
Print articles	10	0	0	10
Print ads	20	0	0	20
Number of HNTR newsletters (effective October 29, 2014)/e-Cards	9	0	1	10
HNTR newsletter distribution (number of subscribers)	406	50	3	459
Radio PSAs/Interviews	1446	0	0	1446
TV PSAs (including webinars, in post-production status)	3	0	0	3
TV programs, appearances, or ads (duplicated count/broadcast)	74	0	0	74
Social media following	52 (rev)	1	5	58
Facebook Posts (effective July 16, 2014)	84	0	0	84
Facebook Friends/Following (effective July 16, 2014)	48	1	5	54
Twitter Posts (effective October 31, 2014)	44	0	1	45
Twitter Following (effective October 31, 2014)	4	0	0	4
YouTube Hits (effective February 23, 2015)	542	12	10	564

Miscellaneous

1. HNTR Contract and Staffing
 - a. The contract that extends the project through December 19, 2017 has now been fully executed.
 - b. We have selected a candidate for the Project Assistant position and are now completing our due diligence before making an offer.
 - c. We have a master's level social work practicum student from Hawaii Pacific University working with us this fall 2017 and spring 2018 semesters.
 - d. We have an international fellow here for several weeks from the country of Moldova who is interested in working with persons diagnosed with mental illnesses, among other thing.
2. Survey
 - a. The new, shortened survey is averaging around 10 – 12 minutes to complete, so length is no longer a barrier to participation.

Hawai'i Neurotrauma Registry Project Update

Dashboard Report through September 30, 2017

Item	Total through July 2017	August 2017	September 2017	Grand Total
Registry Participation				
Number of unique participants in HNTR Registry	205	6	6	217
Public Education				
Events attended by HNTR staff and volunteers	95	0	5	100
Number of individuals who visited HNTR tables at public events	15223	0	250	15473
Number of HNTR brochures distributed	14891	0	355	15246
Number of HNTR business and trivia cards distributed	4136	0	0	4136
Neurotrauma educational materials distributed	21394	0	305	21699
Number of volunteers assisting with public events (duplicated count)	113	0	2	115
Presentations and Networking				
Presentations about HNTR to professionals / community	63	1	2	66
Number of professionals / community members who attended HNTR presentations	1427	42	27	1496
Networking contacts made with partners / collaborators	269	0	1	270
Events / presentations in conjunction with partners / collaborators	46	0	1	47
Media				
Print articles	10	0	0	10
Print ads	20	0	0	20
Number of HNTR newsletters (effective October 29, 2014)/e-Cards	9	0	1	10
HNTR newsletter distribution (number of subscribers)	406	50	3	459
Radio PSAs/Interviews	1446	0	0	1446
TV PSAs (including webinars, in post-production status)	3	0	0	3
TV programs, appearances, or ads (duplicated count/broadcast)	74	0	0	74
Social media following	52 (rev)	1	5	58
Facebook Posts (effective July 16, 2014)	84	0	0	84
Facebook Friends/Following (effective July 16, 2014)	48	1	5	54
Twitter Posts (effective October 31, 2014)	44	0	1	45
Twitter Following (effective October 31, 2014)	4	0	0	4
YouTube Hits (effective February 23, 2015)	542	12	10	564
Information and Referral				
Number of information / referral contacts with individuals	414	5	9	428
Number of information / referrals provided to individuals Range: 1 – 5 pieces of information / referrals per contact Average: 2.07 pieces of information / referrals per contact	1177	66	72	1315
Number of I& R contacts who filled out survey (effective March 2017)	8	5	8	21

Hawaii Neurotrauma Registry Project: Quick Statistics (N=217)
Through September 30, 2017

Variable	Attributes	n
Contract Year	Year 1 (March 21, 2013-March 20, 2014)	40
	Year 2 (March 21, 2014-March 20, 2015)	57
	Year 3 (March 21, 2015-to March 20, 2016)	43
	Year 4 (March 21, 2016 – March 20, 2017)	54
	Year 5 (March 21, 2017 – September 30, 2017)	23
Gender	Female	115
	Male	102
Island	Oahu	191
	Hawaii	18
	Kauai	3
	Maui	4
	Molokai	0
	Lanai	0
	Missing	1
Nature of First Injury Reported	TBI	83
	Acquired Brain Injury	16
	Concussion	4
	Head Injury	1
	Stroke	4
	Stroke – Hemorrhagic	26
	Stroke – Ischemic	47
	Spinal Cord Injury	19
	Missing	5
	Other	4
Nature of Second Injury Reported	TBI	17
	Acquired Brain Injury	6
	Concussion	1
	Head Injury	0
	Stroke	4
	Stroke – Hemorrhagic	8
	Stroke – Ischemic	14
	Spinal Cord Injury	10
	Missing	0
	Other	4

Nature of Third Injury Reported	TBI	10
	Acquired Brain Injury	0
	Concussion	0
	Head Injury	0
	Stroke	0
	Stroke – Hemorrhagic	1
	Stroke – Ischemic	5
	Spinal Cord Injury	2
	Missing	0
	Other	3
How heard (tracked since September 2014)	Public Events	
	Table at public event (event not specified)	25
	Taking Care of Your Diabetes event	1
	Senior Fair	1
	Total	27
	Presentations	
	Presentation (location not specified)	24
	Rehabilitation Hospital Stroke Club	27
	BIA-HI/BIRC	3
	Pacific Head Injury Support Group (Kailua-Kona)	3
	Total	57
	Media and Marketing	
	Newspaper/newsletter	12
	Radio	5
	Midweek	3
	Generations magazine	3
	Google/Internet	5
	TheBus Placard Campaign	2
	Rehabilitation Hospital Stroke Club Newsletter	1
	Island Scene magazine	1
	Hawaii Wellness Directory	1
	Television	1
	Hawaii Adult Day Care Center Brochure Display (Hilo)	1
	Hawaii's Going Home Plus Project	2
	Total	37
	Heard from Others	
	Family or friends	9

	Physician/Hospital/Clinic	9
	Referral by Other	0
	Maui Department of Aging	1
	Galiher DeRobertis Waxman	1
	Veteran's Administration	1
	Total	21